

Title (en)

Method and device for error-free monitoring of an electric motor drive

Title (de)

Verfahren und Vorrichtung zum fehlersicheren Überwachen eines elektromotorischen Antriebs

Title (fr)

Procédé et dispositif de surveillance sécurisé contre les erreurs d'un entraînement à moteur électrique

Publication

EP 2309641 A3 20110810 (DE)

Application

EP 10187125 A 20101011

Priority

DE 102009048944 A 20091010

Abstract (en)

[origin: EP2309641A2] The method involves detecting the current and voltage processes provided by a drive electronics (12) to an electric motor (10). The load speed is determined by using the values. The determination of the load speed takes place by the calculation of an observer model on the base of the detected current. An independent claim is also included for a device for error-proof monitoring of an electric motor drive with three-phase control.

IPC 8 full level

H02P 23/12 (2006.01); **H02P 29/02** (2006.01)

CPC (source: EP US)

H02P 23/12 (2013.01 - EP US); **H02P 29/02** (2013.01 - EP US)

Citation (search report)

- [IY] WO 2007085331 A1 20070802 - SIEMENS AG [DE], et al
- [IY] DE 102005010854 A1 20060914 - PLUEDDEMANN GERHARD [DE]
- [I] EP 1746717 A2 20070124 - JUNGHEINRICH AG [DE]
- [Y] EP 2098930 A1 20090909 - SICK AG [DE]
- [A] WO 2009007681 A2 20090115 - TRW LTD [GB], et al

Cited by

CN117911195A; WO2013013792A3

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2309641 A2 20110413; EP 2309641 A3 20110810; EP 2309641 B1 20121212; DE 102009048944 A1 20110414; US 2011084643 A1 20110414; US 8294410 B2 20121023

DOCDB simple family (application)

EP 10187125 A 20101011; DE 102009048944 A 20091010; US 89717110 A 20101004